

PATENT

IN TREMINITED STATES PATENT AND TRADEMARK OFFICE

Applicant

Richard G. Henry

Serial No.

09/515,948

Filed

February 29, 2000

Title

ZERO VOLATILE ORGANIC SOLVENT

COMPOSITIONS

Group Art Unit

1721

Last Office Action

April 12, 2001

Attorney Docket

ACD 20016-1-3

Cleveland, Ohio 44114-2518

DECLARATION UNDER 37 C.F.R. §1.131

Commissioner of Patents and Trademarks Washington D. C. 20231

RECEIVED

TC 1700

Dear Sir:

As a person signing below:

- I, Richard G. Henry, do hereby declare and say that I am an 1. inventor in the above-identified United States patent application, serial no. 09/525,948.
- I have read and am familiar with the U.S. Patent No. 2. 6,187,736, issued to Jarema on February 13, 2001.
- I declare that at a date prior to March 11, 1998 the claimed 3. priority date of U.S. Patent No. 6,187,736, the invention disclosed in the present application was completed in this country. In this regard, I have attached hereto copies of data reproduced from my Laboratory notes (dates omitted), and other

technical data material which establishes the completion of the invention prior to March 11, 1998. I hereby declare that the attached evidentiary materials were prepared prior to March 11, 1998.

Rich Henry

- 4. Specifically, Exhibit 1, attached hereto, shows that t-butyl acetate identified as a zero volatile organic compound. The t-butyl acetate was tested as a MIR (Maximum Incremental Reactivity) reducing agent for VOC solvents.
- 5. The data in the Table on pages 2-3 of the attached notebook pages shows that addition of between 5% and 99.9% of zero VOC solvents (1)-(4) can reduce the MIR of a VOC solvent by 20% to 40% affecting the cleaning properties of the VOC solvent.
- 6. Each of the dates deleted from Exhibit 1 is prior to March 11, 1998.
- 7. It is submitted that the information in attached Exhibit 1 demonstrates that the invention of t-butyl acetate as zero-VOC solvents admixed with a VOC solvent to reduce atmospheric reactivity of the VOC solvent was completed in this country at a date prior to March 11, 1998.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Richard G. Henry

Date

JUL 0 5 2001 RICH HENTY Appt 1522 GATES MILLS Towers Reduced Volatile Organic Content including JEACHWIEY For Cleaning Acent CAPPOSITIONS YOC Solvents Zero-VOC Solvents ANMALIC xylene 1-Bromo propAne Towene JMR2-7-8.2 2. Benzotrifivoride NApthenic GLYOL ethers (From Dow) +- Butyl Acetate 3) 4 Ethylane Grac n-Buty (ethal Union chroine) Acetone J Prethylene Glynuk M-Butyle Ver 6 Dictiblene Clyar methyl ether 7 Ethylene Glycu Plenyl ether 8 Propylene Chair methyl ether 9 DIPROPYLENE GIFTOL NEEDIL etlas 10 Propriene Clyar methyl ether exetate 11 Propylene 6Lycul n-propyl ether RECEIVED 12 PIPMPYLENE GLYCUL N-Propyl ether 13 propylene 6/4 cm n-Butylether INT 17 5001 14 Tripupyiene Clycul n-propry effice TC 1700 15. Tripropylene GlyGL n-BUEYL ether Hebones 16 Methyl Isonmy hetone 17 Methyl IsoButyl Ketone 18 Methyl N-Amyl Ketine 19 Methy N-Propyl Fretone 20 20 P-LIMONENZ (ALCUHA) Terpene HyporocAIBMS (SAturateo) 22 Pinene ALWHOLS

23 N-PNPYL ALGHL
24 FOORDYL ALGHOL

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Cleaning Effectiveness (Continue)

VOC COMPOU	MB SOIL PREMOVAL FROM Steel GALAD WITH AMERICAL	3 by Volume OF Zero-VOC COMPOUND LO YEAKE MIR ZU-409
14	Very 6wo	10-99.9
15	very Guo	10-99.9
76-19	excellent	5-95.5
20-22	Goop	5-98
23-27	Gusp - Very Goop	10-99.9
\$8-30	G000	10-98
31-37	4	5-90

